

WEST Search History

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DATE: Monday, July 09, 2007

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L24	L23 and ((measur\$3 or determin\$3 or determination or ascertain\$3 or find\$3 or calculat\$3) same (rate or time or slope or sloping or sloped or interval or period or duration or window) same (magnetic or resonan\$3) same (signal or field) same (water or "h2o" or "h.sub.2o") same (frequency or frequencies of "f" or "f.sub.1" or "f.sub.2" or "f1" or "f2"))	11
<input type="checkbox"/>	L23	L22 and ((measur\$3 or determin\$3 or determination or ascertain\$3 or find\$3 or calculat\$3) same (rate or time or slope or sloping or sloped or interval or period or duration or window) same (magnetic or resonan\$3) same (signal or field) same (water or "h2o" or "h.sub.2o"))	11
<input type="checkbox"/>	L22	L21 and (compuut\$3 or process\$3 or stor\$3 or memory or disk or disc or control\$4)	12
<input type="checkbox"/>	L21	L20 and ((first or initial or primary or "f.sub.1" or "f1") same (second or another or additional or secondary or "f.sub.2" or "f2") same (frequency) same (water or "h2o" or "h.sub.2o"))	12
<input type="checkbox"/>	L20	L19 and ((first or initial or primary or "f.sub.1" or "f1") same (second or another or additional or secondary or "f.sub.2" or "f2") same (frequency))	50
<input type="checkbox"/>	L19	L18 and (rate or time or slope or sloping or sloped or interval or period or duration or window)	74
<input type="checkbox"/>	L18	L17 and (compuut\$3 or process\$3 or stor\$3 or mrmory or disk or disc or control\$4)	74
<input type="checkbox"/>	L17	L16 and ((measur\$3 or determin\$3 or determination or ascertain\$3 or find\$3 or calculat\$3) with (magnetic or resonan\$3) with (signal or field))	74
<input type="checkbox"/>	L16	L15 and (gradient or "Gr" or "gp" or "ge" or "gf" or "gx" or "gy" or "gz" or "gss" or "G.sub.r" or "g.sub.p" or "g.sub.e" or "g.sub.f" or "g.sub.x" or "g.sub.y" or "g.sub.z" or "g.sub.ss")	149
<input type="checkbox"/>	L15	L14 and (Fourier or "FT" or "FFT" or "DFT")	149
<input type="checkbox"/>	L14	L13 and ((resonan\$3 or resonat\$3) same (frequency or frequencies of "f" or "f.sub.1" or "f.sub.2" or "f1" or "f2") same (water or "h2o" or "h.sub.2o"))	195
<input type="checkbox"/>	L13	L12 and (spectrum or spectroscopy or spectra\$3)	264
<input type="checkbox"/>	L12	L11 and ((resonan\$3 or resonat\$3) same (frequency or frequencies of "f" or "f.sub.1" or "f.sub.2" or "f1" or "f2"))	442
<input type="checkbox"/>	L11	L10 and ((water or "h2o" or "h.sub.2o")same (frequency or frequencies of "f" or "f.sub.1" or "f.sub.2" or "f1" or "f2"))	606
<input type="checkbox"/>	L10	L5 and (frequency or frequencies of "f" or "f.sub.1" or "f.sub.2" or "f1" or "f2")	1966
<input type="checkbox"/>	L9	L8 and (spectrum or spectroscopy or spectra\$3)	259
<input type="checkbox"/>	L8	L7 and ((resonan\$3 or resonat\$3) same (frequency or frequencies of "f" or "f.sub.1" or "f.sub.2"))	437
<input type="checkbox"/>	L7	L5 and ((water or "h2o" or "h.sub.2o")same (frequency or frequencies of "f" or "f.sub.1" or "f.sub.2"))	588
<input type="checkbox"/>	L6	L5 and (frequency or frequencies of "f" or "f.sub.1" or "f.sub.2")	1921
<input type="checkbox"/>	L5	L4 and (water or "h2o" or "h.sub.2o")	2768
<input type="checkbox"/>	L4	L3 and ((excit\$4 or excitation or select\$3 or choos\$3 or chosen or target\$3 or identif\$4 or identification) same ((pixel or voxel) or ((picture or volume) with element)))	7019
<input type="checkbox"/>	L3	L2 and (excit\$4 or excitation or select\$3 or choos\$3 or chosen or target\$3 or identif\$4 or identification)	14063

- ☐ L2 L1 and ((pixel or voxel) or ((picture or volume) with element))
- ☐ L1 ((magnetic adj resonan\$2) or MRI or NMR or ESR or EPR)

15130

273718

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 20070110290 A1

L22: Entry 1 of 12

File: PGPB

May 17, 2007

PGPUB-DOCUMENT-NUMBER: 20070110290

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070110290 A1

TITLE: Devices Systems and Methods for Processing Images

PUBLICATION-DATE: May 17, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chang; Ti chiun	Plainsboro	NJ	US
He; Lin	Los Angeles	CA	US
Fang; Tong	Morganville	NJ	US

US-CL-CURRENT: 382/128; 382/280, 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMC	Draw Desc	Image
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☐ 2. Document ID: US 20060255802 A1

L22: Entry 2 of 12

File: PGPB

Nov 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060255802

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060255802 A1

TITLE: Magnetic resonance imaging apparatus

PUBLICATION-DATE: November 16, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hirata; Satoshi	Kokubunji		JP
Ochi; Hisaaki	Kodaira		JP
Taniguchi; Yo	Kokubunji		JP
Takahashi; Tetsuhiko	Soka		JP
Takeuchi; Hiroyuki	Kashiwa		JP

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMC	Draw Desc	Image
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☐ 3. Document ID: US 20060181275 A1

L22: Entry 3 of 12

File: PGPB

Aug 17, 2006

PGPUB-DOCUMENT-NUMBER: 20060181275

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060181275 A1

TITLE: Brorc-S2PD

PUBLICATION-DATE: August 17, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moriguchi; Hisamoto	Cleveland	OH	US
Lewin; Jonathan S.	Baltimore	MD	US
Duerk; Jeffrey L.	Avon Lake	OH	US

US-CL-CURRENT: [324/307](#); [324/309](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 20050248343 A1

L22: Entry 4 of 12

File: PGPB

Nov 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050248343

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050248343 A1

TITLE: Method and MR apparatus for dynamic frequency detection in MR spectroscopy

PUBLICATION-DATE: November 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kruger, Gunnar	Erlangen		DE
Roll, Stefan	Seigendorf		DE

US-CL-CURRENT: [324/307](#); [324/309](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: US 20050033153 A1

L22: Entry 5 of 12

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033153

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050033153 A1

TITLE: Dixon Techniques in spiral trajectories with off-resonance correction

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moriguchi, Hisamoto	Cleveland	OH	US
Lewin, Jonathan S.	Baltimore	MD	US
Duerk, Jeffrey L.	Avon Lake	OH	US

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 6. Document ID: US 20030013956 A1

L22: Entry 6 of 12

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013956

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030013956 A1

TITLE: Ultrasound apparatus and method for tissue resonance analysis

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Michaeli, David	Ashkelon		IL

US-CL-CURRENT: 600/437

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 7. Document ID: US 7233143 B2

L22: Entry 7 of 12

File: USPT

Jun 19, 2007

US-PAT-NO: 7233143

DOCUMENT-IDENTIFIER: US 7233143 B2

TITLE: BRORC-S2PD

DATE-ISSUED: June 19, 2007

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20060181275 A1	August 17, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moriguchi, Hisamoto	Cleveland	OH		US
Lewin, Jonathan S.	Baltimore	MD		US
Duerk, Jeffrey L.	Avon Lake	OH		US

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw Desc	Image
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☐ 8. Document ID: US 7215119 B2

L22: Entry 8 of 12

File: USPT

May 8, 2007

US-PAT-NO: 7215119

DOCUMENT-IDENTIFIER: US 7215119 B2

TITLE: Method and MR apparatus for dynamic frequency detection in MR spectroscopy

DATE-ISSUED: May 8, 2007

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050248343 A1	November 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruger; Gunnar	Erlangen			DE
Roll; Stefan	Seigendorf			DE

US-CL-CURRENT: 324/312; 324/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw Desc	Image
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☐ 9. Document ID: US 7042215 B2

L22: Entry 9 of 12

File: USPT

May 9, 2006

US-PAT-NO: 7042215

DOCUMENT-IDENTIFIER: US 7042215 B2

TITLE: Three point dixon techniques in MRI spiral trajectories with off-resonance correction where each TE is a multiple of 2.2 milliseconds

DATE-ISSUED: May 9, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050033153 A1	February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moriguchi; Hisamoto	Cleveland	OH		US
Lewin; Jonathan S.	Baltimore	MD		US
Duerk; Jeffrey L.	Avon Lake	OH		US

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw Desc	Image
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☐ 10. Document ID: US 6477398 B1

L22: Entry 10 of 12

File: USPT

Nov 5, 2002

US-PAT-NO: 6477398

DOCUMENT-IDENTIFIER: US 6477398 B1

TITLE: Resonant magnetic susceptibility imaging (ReMSI)

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mills; Randell L.	Yardley	PA	19067	

US-CL-CURRENT: 600/409; 324/201, 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIMC	Draw Desc	Image
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☐ 11. Document ID: US 5151655 A

L22: Entry 11 of 12

File: USPT

Sep 29, 1992

US-PAT-NO: 5151655

DOCUMENT-IDENTIFIER: US 5151655 A

TITLE: Magnetic resonance imaging using a back-to-back pulse sequence

DATE-ISSUED: September 29, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harms; Steven E.	Dallas	TX		
Flamig; Duane P.	Richardson	TX		
Griffey; Richard H.	Dallas	TX		

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIMC	Draw Desc	Image
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☐ 12. Document ID: US 4918387 A

L22: Entry 12 of 12

File: USPT

Apr 17, 1990

US-PAT-NO: 4918387

DOCUMENT-IDENTIFIER: US 4918387 A

TITLE: MR spectroscopy method

DATE-ISSUED: April 17, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McKinnon; Graeme C.	Zurich			CH
Bosiger; Peter	Ennetbaden			CH

US-CL-CURRENT: [324/309](#); [324/307](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	PMC	Draw Desc	Image
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Term	Documents
MEMORY	2051523
MEMORIES	247718
MEMORYS	211
DISK	1072728
DISC	1033443
DISCS	284900
DISKS	285991
DISC	1033443
DISK	1072728
DISCS	284900
DISKS	285991
(L21 AND (COMPUUT\$3 OR PROCESS\$3 OR STOR\$3 OR MEMORY OR DISK OR DISC OR CONTROL\$4)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	12

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IDS Flag Clearance for Application 10562643

**IDS
Information**

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
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<input type="button" value="Update"/>					

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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20070110290 A1

L24: Entry 1 of 11

File: PGPB

May 17, 2007

PGPUB-DOCUMENT-NUMBER: 20070110290

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070110290 A1

TITLE: Devices Systems and Methods for Processing Images

PUBLICATION-DATE: May 17, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chang; Ti chiun	Plainsboro	NJ	US
He; Lin	Los Angeles	CA	US
Fang; Tong	Morganville	NJ	US

US-CL-CURRENT: 382/128; 382/280, 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw Desc	Image
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☐ 2. Document ID: US 20060255802 A1

L24: Entry 2 of 11

File: PGPB

Nov 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060255802

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060255802 A1

TITLE: Magnetic resonance imaging apparatus

PUBLICATION-DATE: November 16, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hirata; Satoshi	Kokubunji		JP
Ochi; Hisaaki	Kodaira		JP
Taniguchi; Yo	Kokubunji		JP
Takahashi; Tetsuhiko	Soka		JP
Takeuchi; Hiroyuki	Kashiwa		JP

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw Desc	Image
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☐ 3. Document ID: US 20060181275 A1

L24: Entry 3 of 11

File: PGPB

Aug 17, 2006

PGPUB-DOCUMENT-NUMBER: 20060181275

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060181275 A1

TITLE: Brorc-S2PD

PUBLICATION-DATE: August 17, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moriguchi; Hisamoto	Cleveland	OH	US
Lewin; Jonathan S.	Baltimore	MD	US
Duerk; Jeffrey L.	Avon Lake	OH	US

US-CL-CURRENT: [324/307](#); [324/309](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 20050248343 A1

L24: Entry 4 of 11

File: PGPB

Nov 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050248343

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050248343 A1

TITLE: Method and MR apparatus for dynamic frequency detection in MR spectroscopy

PUBLICATION-DATE: November 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kruger, Gunnar	Erlangen		DE
Roll, Stefan	Seigendorf		DE

US-CL-CURRENT: [324/307](#); [324/309](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: US 20050033153 A1

L24: Entry 5 of 11

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033153

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050033153 A1

TITLE: Dixon Techniques in spiral trajectories with off-resonance correction

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Moriguchi, Hisamoto	Cleveland	OH	US
Lewin, Jonathan S.	Baltimore	MD	US
Duerk, Jeffrey L.	Avon Lake	OH	US

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 6. Document ID: US 20030013956 A1

L24: Entry 6 of 11

File: PGPB

Jan 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030013956

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030013956 A1

TITLE: Ultrasound apparatus and method for tissue resonance analysis

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Michaeli, David	Ashkelon		IL

US-CL-CURRENT: 600/437

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw Desc	Image
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☐ 7. Document ID: US 7233143 B2

L24: Entry 7 of 11

File: USPT

Jun 19, 2007

US-PAT-NO: 7233143

DOCUMENT-IDENTIFIER: US 7233143 B2

TITLE: BRORC-S2PD

DATE-ISSUED: June 19, 2007

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20060181275 A1	August 17, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moriguchi, Hisamoto	Cleveland	OH		US
Lewin, Jonathan S.	Baltimore	MD		US
Duerk, Jeffrey L.	Avon Lake	OH		US

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 8. Document ID: US 7215119 B2

L24: Entry 8 of 11

File: USPT

May 8, 2007

US-PAT-NO: 7215119

DOCUMENT-IDENTIFIER: US 7215119 B2

TITLE: Method and MR apparatus for dynamic frequency detection in MR spectroscopy

DATE-ISSUED: May 8, 2007

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050248343 A1	November 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruger; Gunnar	Erlangen			DE
Roll; Stefan	Seigendorf			DE

US-CL-CURRENT: 324/312; 324/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 9. Document ID: US 7042215 B2

L24: Entry 9 of 11

File: USPT

May 9, 2006

US-PAT-NO: 7042215

DOCUMENT-IDENTIFIER: US 7042215 B2

TITLE: Three point dixon techniques in MRI spiral trajectories with off-resonance correction where each TE is a multiple of 2.2 milliseconds

DATE-ISSUED: May 9, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050033153 A1	February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moriguchi; Hisamoto	Cleveland	OH		US
Lewin; Jonathan S.	Baltimore	MD		US
Duerk; Jeffrey L.	Avon Lake	OH		US

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 10. Document ID: US 6477398 B1

L24: Entry 10 of 11

File: USPT

Nov 5, 2002

US-PAT-NO: 6477398

DOCUMENT-IDENTIFIER: US 6477398 B1

TITLE: Resonant magnetic susceptibility imaging (ReMSI)

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mills; Randell L.	Yardley	PA	19067	

US-CL-CURRENT: 600/409; 324/201, 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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☐ 11. Document ID: US 4918387 A

L24: Entry 11 of 11

File: USPT

Apr 17, 1990

US-PAT-NO: 4918387

DOCUMENT-IDENTIFIER: US 4918387 A

TITLE: MR spectroscopy method

DATE-ISSUED: April 17, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McKinnon; Graeme C.	Zurich			CH
Bosiger; Peter	Ennetbaden			CH

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMC	Draw Desc	Image
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Term	Documents
DETERMINATION	855540
DETERMN	45380
RATE	2940833
RATES	758440
TIME	8195336
TIMES	2741978

SLOPE	359203
SLOPES	111682
SLOPING	193125
SLOPINGS	31
SLOPED	97802
(L23 AND ((MEASUR\$3 OR DETERMIN\$3 OR DETERMINATION OR ASCERTAIN\$3 OR FIND\$3 OR CALCULAT\$3) SAME (RATE OR TIME OR SLOPE OR SLOPING OR SLOPED OR INTERVAL OR PERIOD OR DURATION OR WINDOW) SAME (MAGNETIC OR RESONAN\$3) SAME (SIGNAL OR FIELD) SAME (WATER OR "H2O" OR "H.SUB.2O") SAME (FREQUENCY OR FREQUENCIES OF "F" OR "F.SUB.1" OR "F.SUB.2" OR "F1" OR "F2"))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11

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